

Title (en)
Common rail fuel injection apparatus

Title (de)
Common Rail Einspritzvorrichtung

Title (fr)
Dispositif d'injection common rail

Publication
EP 1529940 A2 20050511 (EN)

Application
EP 04026231 A 20041104

Priority
JP 2003376085 A 20031105

Abstract (en)
A common rail fuel injection apparatus includes a common rail (2), an injector (3), a supply pump (4), an inlet amount control valve (14), feedback control means, correction means, storage means, and a control device (5). The common rail (2) accumulates high-pressure fuel. The injector (3) injects the high-pressure fuel. The supply pump (4) sucks and pressurizes fuel to be supplied to the common rail (2). The inlet amount control valve (14) controls a flow amount of fuel sucked into the supply pump (4). The feedback control means obtains a proportional correction value and an integral correction value based on a pressure difference (DELTA PC) between a target rail pressure and an actual rail pressure of the common rail (2) and obtains a driving current value or a pump discharge amount of the supply pump (4). The correction means obtains a correction value to correct a variation of the pump discharge amount. The storage means stores the correction value obtained by the correction means as a learned value when a condition has been satisfied. The control device corrects the driving current value or the pump discharge amount based on the learned value stored in the storage means. <IMAGE>

IPC 1-7
F02D 41/38; **F02D 41/14**; **F02D 41/24**; **F02D 41/30**; **F02M 63/02**; **F02M 59/20**; **F02M 59/46**

IPC 8 full level
F02D 41/06 (2006.01); **F02D 41/14** (2006.01); **F02D 41/20** (2006.01); **F02D 41/24** (2006.01); **F02D 41/30** (2006.01); **F02D 41/38** (2006.01); **F02D 45/00** (2006.01); **F02M 47/00** (2006.01); **F02M 51/00** (2006.01); **F02M 55/02** (2006.01); **F02M 59/06** (2006.01); **F02M 59/20** (2006.01); **F02M 59/34** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)
F02D 41/2464 (2013.01); **F02D 41/3845** (2013.01); **F02D 41/2441** (2013.01); **F02D 2041/1409** (2013.01); **F02D 2041/2058** (2013.01); **F02D 2200/0604** (2013.01); **F02D 2250/31** (2013.01)

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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1529940 A2 20050511; **EP 1529940 A3 20050831**; **EP 1529940 B1 20070307**; DE 602004005127 D1 20070419; DE 602004005127 T2 20071213; JP 2005139975 A 20050602; JP 4111123 B2 20080702

DOCDB simple family (application)
EP 04026231 A 20041104; DE 602004005127 T 20041104; JP 2003376085 A 20031105